

IN THE CLAIMS:

The Claims remain unchanged.

1. (Previously Presented) A system for delivering therapeutic to an irregular interior vessel surface comprising:

a catheter having a proximal end, a distal end, and an internal lumen;

a source of fluid in communication with the internal lumen of the catheter; and

a first inflatable balloon having an exterior surface,

the first inflatable balloon in communication with the internal lumen of the catheter,

the first inflatable balloon having a measurable elasticity,

the exterior surface of the first inflatable balloon at least partially covered with a therapeutic when the first inflatable balloon is in an initial unexpanded state;

the exterior surface of the first inflatable balloon in communication with a therapeutic when the first inflatable balloon is in an expanded state; and

a dilation bladder located within the first inflatable balloon,

the dilation bladder in fluid communication with a second internal lumen of the catheter by way of a dilation bladder openings in the catheter,

the dilation bladder deformable from a non-inflated position to an inflated position,

the dilation bladder having a measurable elasticity, the elasticity of the first inflatable balloon being greater than the elasticity of the dilation bladder.

2. (Previously Presented) The system for delivering therapeutic of claim 1 wherein the exterior surface of the first inflatable balloon is contacting a therapeutic when the first inflatable balloon is in an initial unexpanded state.
3. (Original) The system for delivering therapeutic of claim 1 further comprising:
a source of therapeutic, the source of therapeutic in fluid communication with the exterior surface of the first inflatable balloon.
4. (Original) The system for delivering therapeutic of claim 3 wherein the therapeutic traverses through a section of the first inflatable balloon before the therapeutic comes in communication with the exterior surface of the first inflatable balloon.
5. (Canceled)
6. (Previously Presented) The system for delivering therapeutic of claim 1 further comprising:
a second inflatable balloon, the second inflatable balloon located within the first inflatable balloon, the second inflatable balloon having an outside surface, the outside surface in communication with a source of therapeutic, the first inflatable balloon having a plurality of apertures in fluid communication with the outside surface of the second inflatable balloon.

7. (Previously Presented) The system for delivering therapeutic of claim 1 further comprising:

a third internal lumen within the catheter, the first inflatable balloon positioned around the third internal lumen, the third internal lumen having an entrance orifice and an exit orifice, the entrance orifice positioned upstream of the inflatable balloon, upstream relative to a fluid flowing through the irregular interior vessel, and the exit orifice positioned downstream of the inflatable balloon, downstream relative to fluid flowing through the irregular interior vessel.

8. (Original) The system for delivering therapeutic of claim 1 wherein the first inflatable balloon is made with a latex material and wherein the source of fluid is adapted to control the rate of inflation of the balloon.

9. (Original) The system for delivering therapeutic of claim 1 wherein the first inflatable balloon is made with a silicone material and wherein the source of fluid is adapted to control the rate of inflation of the balloon.

10. (Original) The system for delivering therapeutic of claim 1 wherein the first inflatable balloon is made with a polyurethane material and wherein the source of fluid is adapted to control the rate of inflation of the balloon.

11. (Original) The system for delivering therapeutic of claim 1 wherein the first inflatable balloon is porous relative to the therapeutic being delivered.

12. (Previously Presented) A device for delivering therapeutic to an irregular interior vessel surface comprising:

a catheter having a proximal end, a distal end, and an internal lumen;

a first inflatable balloon in fluid communication with the internal lumen of the catheter, the first inflatable balloon having a measurable elasticity, the first inflatable balloon having an exterior surface and an interior surface, the exterior surface of the first inflatable balloon at least partially covered with a therapeutic, the first inflatable balloon being impervious to the therapeutic;

a dilation bladder located within the first inflatable balloon,

the dilation bladder in fluid communication with a second internal lumen of the catheter by way of a dilation bladder openings in the catheter,

the dilation bladder deformable from a non-inflated position to an inflated position.

13. (Previously Presented) The device of claim 12 wherein a surface of the first inflatable balloon contains grooves sized to increase the deformability of the inflatable balloon.

14. (Previously Presented) The device of claim 12 further comprising:

a source of therapeutic, the source of therapeutic in fluid communication with the exterior surface of the first inflatable balloon.

15. (Previously Presented) The device of claim 14 wherein the therapeutic traverses through the first inflatable balloon before the therapeutic contacts the exterior surface of the first inflatable balloon.
16. (Canceled)
17. (Previously Presented) The device of claim 12 further comprising:
a third internal lumen passing through the first inflatable balloon, the first inflatable balloon positioned around the third internal lumen,
the third internal lumen having an entrance orifice and an exit orifice,
the entrance orifice positioned upstream of the first inflatable balloon, upstream relative to a fluid flowing through the irregular interior vessel, and the exit orifice positioned downstream of the first inflatable balloon, downstream relative to fluid flowing through the irregular interior vessel.
18. (Previously Presented) The device of claim 12 further comprising:
a second balloon positioned between the dilation bladder and the first inflatable balloon, the second balloon having an outside surface, the outside surface in communication with therapeutic.
19. (Previously Presented) The device of claim 12 wherein the first inflatable balloon has an internal grooved balloon surface.

20. (Previously Presented) A method for delivering therapeutic to an irregular interior vessel surface of a patient comprising:

inserting an expandable first membrane attached to a catheter into the vessel of the patient, the expandable first membrane having an exterior surface in contact with therapeutic and having a measurable elasticity;

positioning the expandable first membrane at the irregular interior vessel surface within the patient;

forcing a fluid into the expandable first membrane after positioning the expandable first membrane at the irregular interior vessel surface to inflate the expandable first membrane, the expandable first membrane becoming juxtaposed to and replicating the irregular interior surface of the vessel of the patient; and,

after positioning the expandable first membrane at the irregular interior surface of the vessel within the patient, inflating a dilation bladder located within the expandable first membrane, the dilation bladder having a measurable elasticity, the elasticity of the first inflatable balloon being greater than the elasticity of the dilation bladder.

21. (Previously Presented) The method of claim 20 wherein the exterior surface of the expandable first membrane is impervious to therapeutic.

22. (Previously Presented) The method of claim 20 further comprising:

providing access to a channel within the catheter to enable blood in the vessel of the patient to flow through the catheter.

23. (Previously Presented) The method of claim 20 wherein the fluid is a tracing fluid.

24. (Canceled)

25. (Previously Presented) The method of claim 20 further comprising:

opening an entrance orifice of a passage traversing the expandable first membrane, the passage compatible with the fluid flowing within the vessel of the patient.

26. (Previously Presented) A medical device for delivery of therapeutic to a vessel within a patient comprising:

a catheter body having a first end, a second end, and a lumen within the catheter body; and

an inflatable balloon in fluid communication with the lumen of the catheter, the balloon comprising a grooved surface of the balloon, the grooved surface comprising ribs or notches.

27. (Previously Presented) The medical device of claim 26 further comprising a dilation bladder, the dilation bladder positioned inside of the inflatable balloon,

the inflatable balloon and the dilation bladder each having a measurable elasticity, the elasticity of the inflatable balloon being greater than the elasticity of the dilation bladder.